HAR

Work Order ID 63448

Quality Control

Tuesday, November 02, 2010 9:21:29 AM



Page 1

Item ID: Pevision ID:	D4148-1			Accept				s s	etup Sta	rt
Item Name:	Crosstube Lu	g Plate, Fwd		~	•		•	• •	Sto	р 🛗 📗 💮
Start Date: Required Date: Reference:	11/2/2010	Start Qty: 4.00 Req'd Qty: 4.00			Cust Item I Customer:	D:			•	
Approvals:	Process Pla	an:	Date://	-02Tooling:	D:	ate:		R	Run Sta	
	QC:	/(Date:	SPC (Y/N):	D:	ate:			Sto	P
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Insp. Number Stamp
Draw Nbr	Rev	vision Nbr								94
D4148	С									
100 Waterjet		Memo		0.00				图(0-	((-7	
FLOW CNC Waterj	et	Cut as pe Prog Rev Dwg Rev								5
		QC2- Inspect parts of	ff machine FAI/FAIB	0.00				HB 10	NI-Z	
QC		Memo		0.00						

D	ar	t.	Α	er	O	S	p	а	C	е	L	td	
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Dart Ae	rospace l	_td							
N/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		DAD #-	Fault Cate		NOD: Var	N- DO	A .	Data	
rait ivo		PAR #:							
	Res	solution:	Dispositio	on:	_ QA: N/C Clo	osed:		Date: _	
NCR:		•	WORK ORD	PER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	1	ion C	Chief Eng	QC Inspector

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Page 2

Tuesday, November 02, 2010 9:21:29 AM

Item ID:

D4148-1

Accept

Setup Start

Stop



Revision ID:

Item Name:

Crosstube Lug Plate, Fwd

Start Date:

11/2/2010

QC:

Start Oty: 4.00

Req'd Oty: 4.00 **Required Date:** 11/9/2010



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:_____

Tooling:

Date:

Run

Start

Stop



Date:

SPC (Y/N):

Date:

Reject Qty

Reject Number

Insp.

Sequence ID/ Work Center ID

120

QC

Memo

QC8- Inspect parts - second check

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Accept Qty

Stamp

Quality Control

Operation

Description

Packaging

Packaging

150

Memo

Identify as per dwg & Stock Location

0.00

160

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

Dart Aeı	rospace	e Ltd							4 3
W/O:			V	ORK ORDER CHANGE	S				
DATE	STEP	PROC	EDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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ı		, .							
Part No	:	PAR #:	_ Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date:	·
	R	esolution:	_ Disposit	ion:	QA: N/C	losed:		Date:	
NCR:	•	W	ORK OR	DER NON-CONFORMA	NCE (NC	R)			
	0755	Description of NC		Corrective Action Section	ı B	Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Secti	on C	Chief Eng	QC Inspector
					·				:

Tuesday, November 02, 2010 9:21:33 AM

Work Order ID: 63448

Parent Item: D4148-1

Parent Item Name: Crosscabe Lug Plate, Fwd

Start Jate: 11/2/2010

114799

Required Date: 11/9/2010

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP Rev:A 10.06.24 new issue DD verf:EC \Box

IPP Rev:B 10.10.29 as per revC DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Primary Item Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S11GA	1811 BBB 1 181 186	Purchased	No		100	sf	43.8523	0.3607	1.518737			
304/316 0.125 Sheet	 								14	10-11-	1	

 Location
 Loc Oty
 Loc Code

 MAT
 43.8523

 114799
 43.8523

(4)

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W/O:			W	ORK ORDER CH	ANGES					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:								
	R	esolution:	Disposition	on:	QA:	N/C Clo	sed:		Date: _	
NCR:			WORK ORE	DER NON-CONFO	RMANCE	(NCR))			
DATE	STEP	Description of NC		Corrective Action	Section B	O: 0	Verific		Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Descrip Chief Eng	otion	Sign & Date	Section	on C	Chief Eng	QC Inspector
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	1						1		l	

DART AEROSPACE LTD	Work Order:	63448
Description: CROSSTUBF Lug PLATE Fuil	Part Number:	D4148-1
Inspection Dwg D4/48-1 Rev:		Page 1 of 2

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Rejest	Method of Inspection	Comments
CS 1299	1,005001	,134	*		V 1802	
191.	1,005 - 200, +	,196	8		V	
0 38	t.006001	1379	*		V	
8 .257	100 000. +	. 259	4		V	
8 50	100, - 000, +	,503	*		V	
,94	4_ 1030	,934	*		V	
4.47	4 30	4,477	×		V	
7750	4- 010	,760	8		V	
8,47	1/ 030	8.478	8	·	VRRO 1802	
8.096	£ .010	8,698	70		UPRO 4367	
5.43	4 30	5.435	始		٧	
5.197	H010	5,89	8		V	
4,733	4/010	4.730	X		V	
316	1/010	.310	8		V	
.150	4. 010	.750	X		V	
374	1/2 .010	,376	>		V	
1.84	+L 330.	1.838	7		V	
P.Kh. ,95	4 030	,919	7		V	
3,006	1L , do	7.997	*		V	
Pitch 1750	42 .00	749	Y		<u> </u>	
,635	t .010	.623	*		ν	
589.1	C16. 1	1.984	*		V	
P.H. h ,991	t/0to	,992	4		V	

Measured by: vs	Audited by:	Prototype Approval:
Date: 10-11	Date: In/u/in	Date:
2410. 10-11	1014/113	

Dave	Deta	Change	Revised by	Approved
Rev	Date -		KJ/JLM	
A	<u> </u>	New Issue	,	

DART AEROSPACE LTD	Work Order: 63448
DART AEROSPACE ETS	
Description: Closs Tube Lug PLATE FUND	Part Number: D4(48~)
	Page 7 of 2
Inspection Dwg:D4148-1 , Rev: C	34

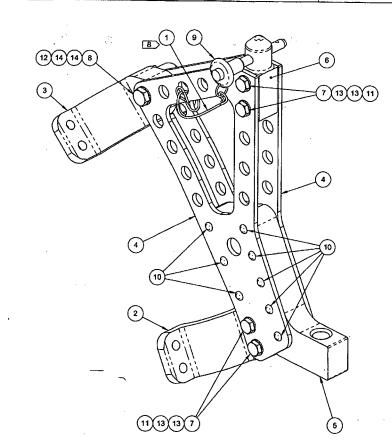
FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Rejest	Method of Inspection	Comments
. 11	4- 630	,711	*		U 1BUZ	
1.54	4- (34)	1.538	X		U	
2,47	4 .00	2.468	*		V	
P. tch . 82	4 30	658,	7		V	
3,57	4 00	3,575	*		V	
1.73	4 ,030	1.728	>		V	
.73	4/2 32	.751	×		V	
,125	4- ,010	,118	*		V	
1.98	4030	1,978	*		V	
·			<u> </u>			
				-		
	 					
	+					
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Measured by:	HZ.	Audited by:	8	Prototype Approval:	
	_ <u>(y</u>	Date:	10/4/03	Date:	
Date:	10-11-2	Datot	1011110)		

	,		Revised by	Approved
Rev	Date _	Change	KJ/JLM	,
Α		New Issue	NO/OLIVI	



ITEM	QTY -041	P/N	DESCRIPTION
	Х	D4148-041	FWD X-TUBE LUG ASSY
1		D2690-6	LANYARD
2	1	D3910-1	X-TUBE LUG
3	1.	D4091-1	MOUNTING LUG
4	2	D4148-1	FWD X-TUBE LUG PLATE
5	1	D4148-3	STUD RECEIVER LOWER
6	1	D4148-5	EYEBOLT STUD
7	4	AN3C12A	BOLT
8	1	AN4C13A	BOLT
9	1	MS17984-C413	PIP PIN
10	- 8	MS20615-4M18	RIVET
11	4	MS21043-3	NUT
12	1	MS21043-4	NUT
13	8	NAS1149C0332R	WASHER
14	2	NAS1149C0432R	WASHER
	1 2 3 4 5 6 7 8 9 10 11 12 13	1 4 2 1 3 1 6 1 1 7 4 8 1 1 1 0 8 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER

D. 10-11-09

D4148-041 FWD X-TUBE LUG ASSY

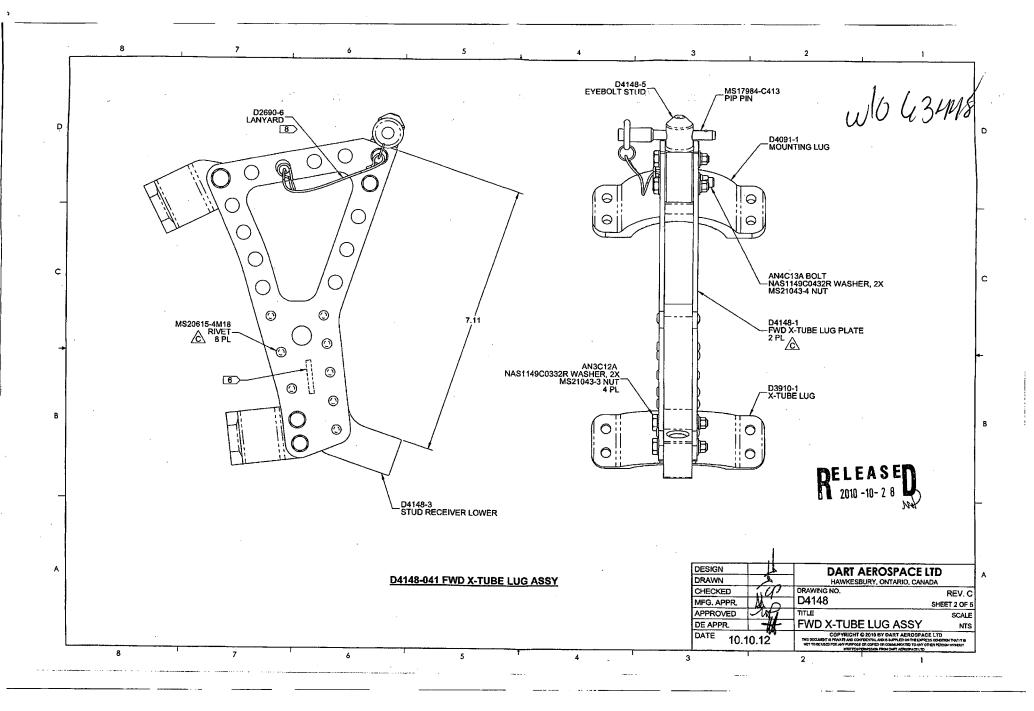
NOTES:
1) MATERIAL: N/A
2) FINISH: NONE
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4148-041" PER DART QSI 044 6.1
7) WEIGHT: 3.63 lbs
8) ATTACH D2690-8 TO D4148-1 BY LOOPING AROUND A LIGHTENING HOLE FIRST AND THEN SECURE TO MS17984-C413

С	REDES	EDESIGNED D4148- SUES WITH D350-5	TO ADDRESS COMPATIBILITY MB 10.10.12					
В	AN3C12	N3C12A, MS21043-3 ASHER (7N D3-1 R	MS20815-4M18 WITH (DTY/2) EACH 3-3 AND CITY(9) ANS11496/0332R B7-2 & B4-2): MS20815-4M18 WAS B3-1 & B7-2; 00-6191 2 Pt REPLACES B3: 00.129 7 PL WAS 10 PL (ZN A7-3); (ZN CS-5): (ZN CS-5): 2050-607-2 REV. B.					
Α	NEW IS	EW ISSUE	MB 10.06.18					
REV.			DESCRIPTION	DESCRIPTION BY DATE				
DESIGN	1	J	DART AEROSPACE LTD					
DRAW	4	A/s	HAWKESBURY, ONTARIO, CANADA					
CHECK	ED	1/1	DRAWING NO.	DRAWING NO. REV.				
MFG. A	PPR.	R. No	D4148 SHEET 1					
APPRO	VED	D Jahr	TITLE					
DE APE	R.	EWD V TUDE LUG ADDV			NTS			
DATE 10.10.12 COPYRIGHT & 2010 BY DART AEROSPACE LTD. THIS DOLLAGE IS PRIVATE HIGH CORP DERIVAL AND IN HIGH DOWNS OF OPEN CONTROL OF THE OPEN AND HIGH DOWN				O CONDITION THAT IT IS				

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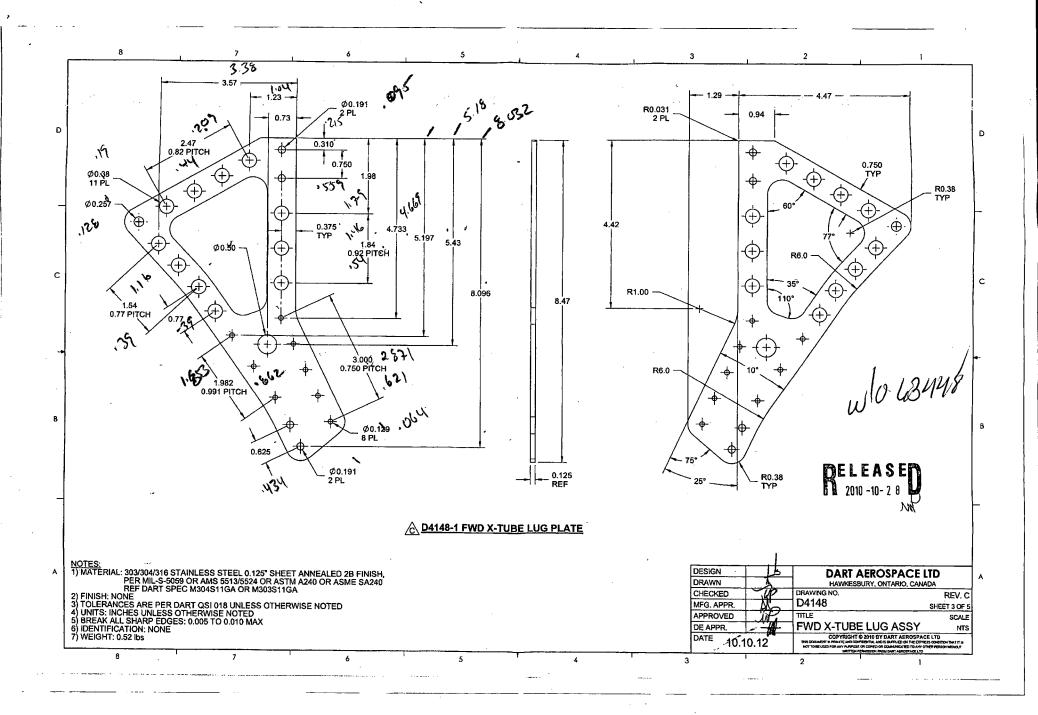
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W/O:			W	ORK ORDER CHANG	GES				· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	s No De	QA:	Date:	
	Re	Resolution: Disposition:				Closed: _		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)			
DATE	STEP	Description of NC			ction B	Veri	fication	Approval	Approval
	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ction C	Chief Eng	QC Inspector



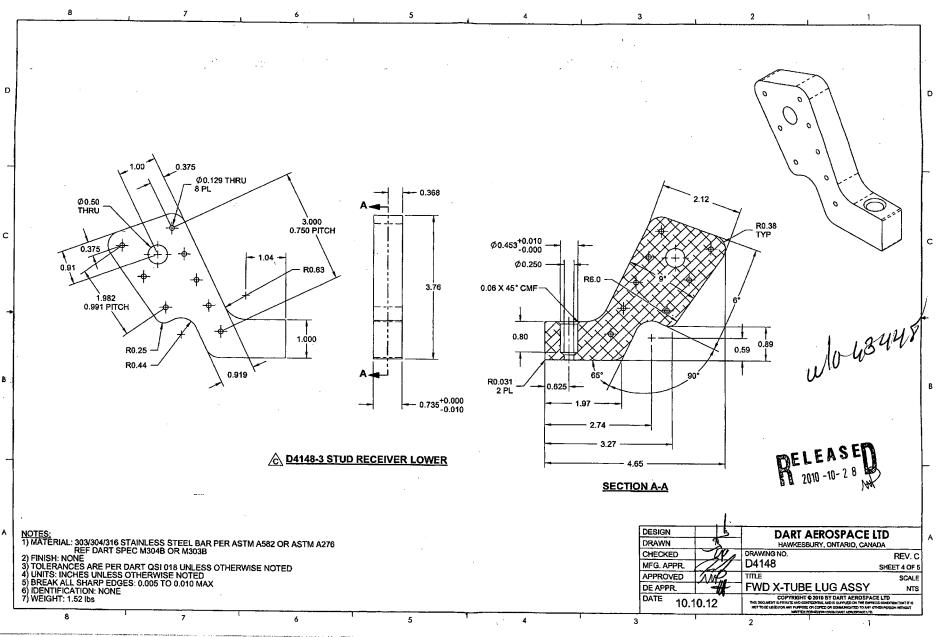
Dart Aerospa	ce	Ltd
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W/O:			V	ORK ORDER CHANGE	ES				
DATE	STEP	PROC	CEDURE CH	IANGE		Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	_ NCR:	: Yes N	o DQA:	Date: _	
	R	esolution:						Date: _	
NCR:		W	ORK OR	DER NON-CONFORMA	NCE	(NCR)		·	
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description		Sign &	Verificatio Section C	n Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng		Date			
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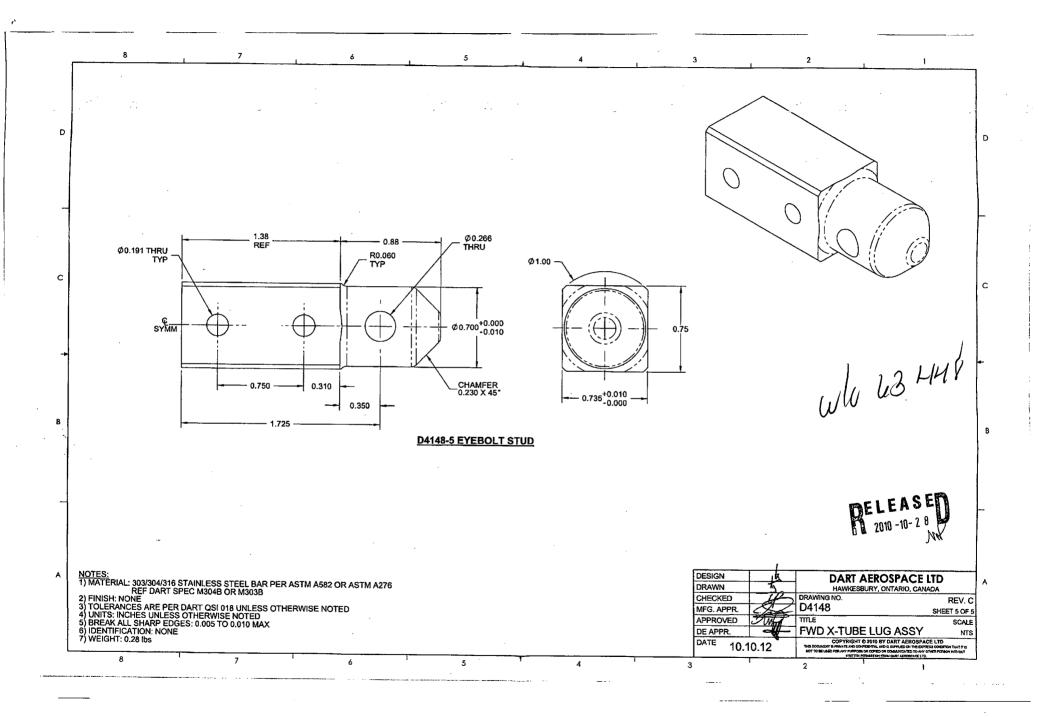


	Dart	Aeros	pace	Ltd
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W/O:			W	ORK ORDER CHANG	GES					
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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			•							
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Part No):	PAR #: Fault Category: NC			NCR: Yes	No DQ	No DQA: Date:			
	Re	esolution:	Disposition: QA: N/C Closed:					Date:		
NCR:	NCR:		WORK ORE	DER NON-CONFORM	IANCE (NCI	3)				
DATE	STEP	Description of NC			ction B	Verific		Approval	Approval	
	-	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date		on C	Chief Eng	QC Inspector	
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W/O:			WC	ORK ORDER CHAI	NGES				
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	es No I	DQA:	_ Date: _	
	Re	solution:	Disposition: QA: N/C Closed: Date: _					Date: _	
NCR:			WORK ORD	ER NON-CONFOR	MANCE (N	CR)			
DATE STEP		Description of NC	Corrective Action		Section B	Ve	rification	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng		n &	Section C	Chief Eng	QC Inspector
							•		



W/O:			. W	ORK ORDER CHANGI	ES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cat	tegory:	NCR: Yes	No DQ	A:	_ Date: _	
	R	solution: Disposition:				Closed:		Date:	
NCR:		W	ORK ORI	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		tion C	Chief Eng	QC Inspector
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